

# **Enabling Independent Living**Verizon Wireless Solutions

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## **Talking Points**

- What is the Problem?
- What are Connected Devices?
- Why Verizon?
- Example solutions
- Questions



#### What is the Problem?

- Aging population
- Limited resources
- Rising costs of healthcare
- Disconnected from Family & Society
- Relocation

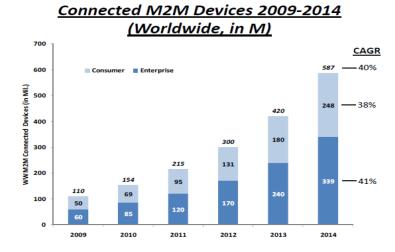


#### What are Connected Devices?

#### Visibility & Automation of data in the field

#### **AKA**

- "Internet of Things"
- •"M2M"
- "Machine to Machine"



Device Network Application

Embedded Modem Sensor Location Tags POTS Wi-Fi Wireless Carrier Bluetooth / Zigbee

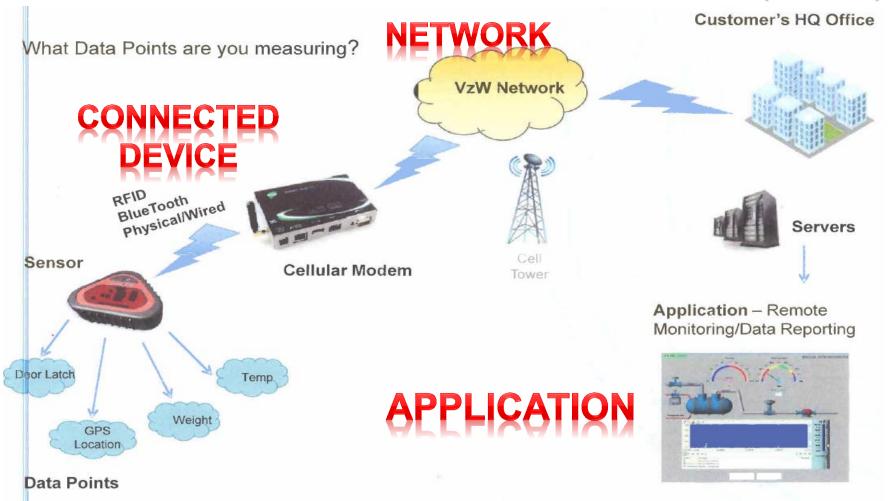
\* Software that makes sense of the captured data

(Cloud or software based)



#### What are Connected Devices?

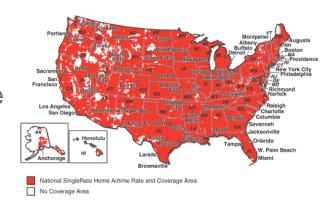
## Machine to Machine Fundamental Elements (D-N-A)





## Why Verizon?

- Broad portfolio of devices and modules
- The most reliable and secure network available
- Flexible / Turnkey Solutions



- Easily connect with remote assets. Exchange data in a proven, secure and budget-friendly manner.
- Automate processes. Analyze and act on real-time information, and get more done with available resources, resulting in greater business efficiency.
- Access to best in class solutions partners



#### Why Verizon - LTE

#### Fast

Up to 10x faster than 36

#### Low Latency

One-Fourth of 3G latency

#### Excellent Coverage and In-Building Penetration

Over 300 million people and 500 markets covered

#### Inherent global mobility

Over 85% of the world operators adopting LTE

Peak Data Rates

Avg Data Rates

Fringe Data Rates



60 - 86 Mbps

5 - 12 Mbps

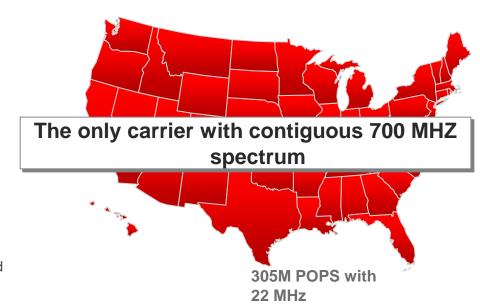
1 - 3 Mbps

# Uplink

20 - 28 Mbps

2 - 5 Mbps

0.5 - 1.5 Mbps





## **Example: Home Health Monitoring**

**Need:** Ability to keep track of health statistics remotely

- Patients require continual monitoring
- Secured to prevent external access
- Must be easy

**Solution:** Home Healthcare Monitoring Solution

- No patient setup
- Secure
- Can be used where needed
- Efficient Saves time and money





**Blood Glucose Meter** 



**Blood Pressure Monitor** 



**Pulse Oximeter** 



Peak Flow Meter



Weight Scales



## **Example: Emergency Response System**

**Need:** Individual requiring immediate assistance

- Notify emergency responders
- · Panic button to easily call for help
- Minimal interaction required
- May be unable to speak or provide location

**Solution:** Wearable monitor with emergency button

- One button emergency notification
- Monitoring for extended horizontal position heartbeat
- Can automatically inform necessary parties if condition detected





## **Example: Location Tracking**

Need: Ability to Track Wandering Individuals

- Must track both indoors and outdoors
- Individual needs to call for help if lost
- Small and lightweight

**Solution:** Wearable tracker with alert button

- One button alerting to pre-determined email or mobile numbers
- Provides for alerts when exiting or entering predefined locations
- Can provide location based on GPS





## **Example: Ruggedized Tablets**

Need: Rugged hardware for staff

- Providers require reliable devices
- Reporting functions are critical
- Invoicing and payments

Solution: "Blank Slate" Android Tablets & Applications

- Fully ruggedized tablet
- Verizon secure Private Network for access to internal resources
- Reduction in paper reporting and data entry
- Allows provider flexibility in applications used





## **Example: Vehicle Tracking**

#### **Need:** Track the vehicles of staff members

- Non-permanent installation
- Diagnostics & Maintenance
- Vehicle Location (realtime, breadcrumb, qeofence, proximity)
- Vehicle Idle Time

#### Solution: Vehicle Tracking Solution

- Device on vehicle, plugged into standard OBDII port
- Reports to "cloud application" for GPS location, notifications, reporting, and maintenance
- Integrates into existing vehicle maintenance and GIS systems





## **Example: Video Chat**

Need: Video Conferencing System

- Simple operation
- Users may have very limited mobility
- Maintain contact with family, providers, friends

Solution: Simple Voice Chat Application on Tablets

- Don't require external internet connection
- Lightweight devices
- Tablets provide multiple capabilities. (Ereader, Email, internet, etc.)





## **Example: Home Internet**

#### Need: Basic Internet Connectivity

- Simple operation
- Ability to work (nearly) anywhere
- Professional Installation

#### Solution: Verizon HomeFusion

- Provides internet connectivity on the Verizon 4G LTE Network
- Provides connectivity to rural locations where other services may not be available





Q & A

## Questions?



# Thank you!